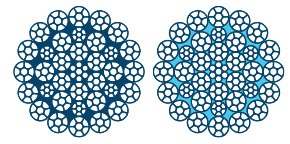
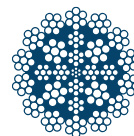


ENDURANCE DYFORM 34LR & 34LRPI



Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
Dyform 34x7									
10	0.50	92.1	9.39	96.7	9.9	5.8	15	3.3	58
11	0.61	111	11.4	117	11.9	7.0	2.0	4.4	70
12	0.72	133	13.5	139	14.2	8.3	2.5	5.7	84
13	0.85	156	15.9	163	16.7	9.7	3.2	7.3	98
14	0.98	181	18.4	190	19.3	11	4.0	9.1	114
15	1.13	207	21.1	218	22.2	13	5.0	11	131
16	1.28	236	24.0	248	25.2	15	6.0	14	149
17	1.45	266	27.1	279	28.5	17	7.2	16	168
18	1.62	298	30.4	313	31.9	19	8.6	19	188
19	1.81	333	33.9	349	35.6	21	10	23	210
20	2.00	368	37.6	387	39.4	23	12	27	232
21	2.21	406	41.4	426	43.5	25	14	31	256
22	2.42	446	45.4	468	47.7	28	16	35	281
23	2.65	487	49.7	511	52.1	30	18	40	307
24	2.88	531	54.1	557	56.8	33	20	46	335
25	3.13	576	58.7	604	61.6	36	23	52	363
26	3.38	623	63.5	654	66.6	39	26	58	393
27	3.65	672	68.5	705	71.9	42	29	65	424
28	3.92	722	73.6	758	77.3	45	32	73	456
29	4.21	775	79.0	813	82.9	48	36	81	489
30	4.50	829	84.5	870	88.7	52	40	90	523
32	5.12	939	95.7	990	101	59	48	108	595
34	5.78	1060	108			67	58	130	672
35	6.13	1124	115			70	63	142	712
36	6.48	1189	121			75	68	154	753
38	7.22	1325	135			83	81	181	839
40	8.00	1468	150			92	94	211	930
Dyform 34x19									
42	8.82	1618	165			101	109	245	1025
44	9.68	1776	181			111	125	281	1125
46	10.6	1941	198			122	143	321	1230
48	11.5	2113	215			133	162	365	1339
50	12.5	2293	234			144	183	413	1453
52	13.5	2480	253			156	206	464	1572
54	14.6	2675	273			168	231	520	1695
56	15.7	2877	293			180	258	580	1823
58	16.8	3033	309			194	281	633	1955
60	18.0	3246	331			207	312	701	2092
62	19.2	3466	353			221	344	774	2234
64	20.5	3693	376			236	378	851	2381
66	21.8	3927	400			251	415	933	2532
68	23.1	4031	411			266	454	1021	2687
Dyform 34x31									
70	24.5	4272	436			282	489	1101	2848
72	25.9	4519	461			298	533	1198	3013
74	27.4	4774	487			315	578	1301	3183
76	28.9	5036	513			332	626	1409	3357

ENDURANCE 50DB



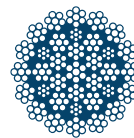
Diameter mm	Approx.nominal length mass kg/m	Minimum breaking force (Fmin) EIPS / 1960 grade		Axial stiffness @20% load MN	Torque generated @20% load		Metallic cross section mm ²
		kN	tonnes		Ordinary N.m	Lang's N.m	
8	0.27	49.6	5.06	3.1	n/a	2.9	32
9	0.35	62.8	6.41	3.9	n/a	4.1	40
10	0.43	77.6	7.91	4.8	n/a	5.6	49
11	0.52	93.9	9.6	5.8	n/a	7.4	60
12	0.61	112	11.4	6.9	n/a	10	71
13	0.72	131	13.4	8.1	n/a	12	84
14	0.84	152	15.5	9.4	n/a	15	97
15	0.96	175	17.8	11	n/a	19	111
16	1.09	199	20.2	12	n/a	23	127
17	1.23	224	22.9	14	n/a	27	143
18	1.38	251	25.6	16	n/a	33	160
19	1.54	280	28.5	17	n/a	38	179
20	1.71	310	31.6	19	n/a	45	198
21	1.88	342	34.9	21	n/a	52	218
22	2.07	375	38.3	23	n/a	59	239

ENDURANCE DYFORM 50DB



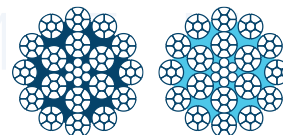
Diameter mm	Approx.nominal length mass kg/m	Minimum breaking force (Fmin) EIPS / 1960 grade		Axial stiffness @20% load MN	Torque generated @20% load		Metallic cross section mm ²
		kN	tonnes		Ordinary N.m	Lang's N.m	
8	0.30	57.2	5.83	3.6	n/a	2.7	37
9	0.38	72.4	7.38	4.5	n/a	3.9	46
10	0.47	89.3	9.10	5.6	n/a	5.4	57
11	0.57	108	11.0	6.7	n/a	7	69
12	0.68	129	13.1	8.0	n/a	9	83
13	0.80	151	15.4	9.4	n/a	12	97
14	0.93	175	17.8	11.0	n/a	15	112
15	1.06	201	20.5	13	n/a	18	129
16	1.21	229	23.3	14	n/a	22	147
17	1.36	258	26.3	16	n/a	26	166
18	1.53	289	29.5	18	n/a	31	186
19	1.70	323	32.9	20	n/a	37	207
20	1.89	357	36.4	22	n/a	43	229
21	2.08	394	40.2	25	n/a	50	253
22	2.28	432	44.0	27	n/a	57	277
23	2.50	473	48.2	29	n/a	65	303
24	2.72	515	52.5	32	n/a	74	330
25	2.95	558	56.9	35	n/a	84	358
26	3.19	604	61.6	38	n/a	94	388

ENDURANCE 35LS



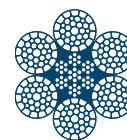
Diameter mm	Approx.nominal length mass kg/m	Minimum breaking force (Fmin) EIPS / 1960 grade		Axial stiffness @20% load MN	Torque generated @20% load		Metallic cross section mm ²
		kN	tonnes		Ordinary N.m	Lang's N.m	
10	0.45	75.5	7.69	5.1	1.2	2.7	50
11	0.54	91.3	9.31	6.2	1.6	3.6	61
12	0.65	109	11.1	7.4	2.1	4.7	72
13	0.76	128	13.0	8.7	2.7	6.0	85
14	0.88	148	15.1	10	3.3	7.5	98
15	1.01	170	17.3	12	4.1	9.2	113
16	1.15	193	19.7	13	4.9	11	129
18	1.46	244	24.9	17	7.0	16	163
19	1.62	272	27.8	18	8.3	19	181
20	1.80	302	30.8	20	9.7	22	201
21	1.98	333	33.9	23	11	25	221
22	2.18	365	37.2	25	13	29	243
23	2.38	399	40.7	27	15	33	266
24	2.59	435	44.3	29	17	38	289
25	2.81	472	48.1	32	19	42	314
26	3.04	510	52.0	35	21	48	339
28	3.53	592	60.3	40	27	60	394
32	4.61	773	78.8	52	40	89	514

ENDURANCE DYFORM 18 & 18PI



Diameter mm	Approx.nominal length mass kg/m	Minimum breaking force (Fmin)		Axial stiffness @20% load MN	Torque generated @20% load		Metallic cross section mm ²
		kN	tonnes		Ordinary N.m	Lang's N.m	
16	1.27	216	22.0	14	21	31	143
17	1.44	244	24.8	15	25	37	161
18	1.61	273	27.8	17	29	44	181
19	1.79	304	31.0	19	35	52	201
20	1.99	337	34.4	21	40	61	223
21	2.19	372	37.9	23	47	70	246
22	2.41	408	41.6	26	54	81	270
23	2.63	446	45.4	28	62	92	295
24	2.86	485	49.5	31	70	105	321
25	3.11	527	53.7	33	79	119	349
26	3.36	570	58.1	36	89	133	377
27	3.62	614	62.6	39	100	149	407
28	3.90	661	67.4	42	111	167	437
29	4.18	709	72.3	45	123	185	469
30	4.47	759	77.3	48	137	205	502
32	5.09	863	88.0	54	166	249	571

ENDURANCE DYFORM 6 & 6PI

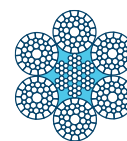


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
Dyform 6x26WS									
8	0.29	53.0	5.40	57.5	5.86	3.5	5.8	9.2	34
9	0.37	67.0	6.83	72.8	7.42	4.4	8.3	13	43
10	0.46	82.8	8.44	89.8	9.16	5.4	11	18	53
11	0.56	100	10.2	109	11.1	6.6	15	24	64
12	0.66	119	12.1	129	13.2	7.8	20	31	76
13	0.78	140	14.3	152	15.5	9.2	25	40	89
14	0.90	162	16.5	176	18.0	11	31	50	103
15	1.03	186	19.0	202	20.6	12	39	61	118
Dyform 6x36WS									
16	1.17	212	21.6	230	23.4	14	47	74	135
17	1.33	239	24.4	260	26.5	16	56	89	152
18	1.49	268	27.3	291	29.7	18	67	105	170
19	1.66	299	30.5	324	33.1	20	78	124	190
20	1.84	331	33.7	359	36.6	22	91	144	210
22	2.22	401	40.8	435	44.3	26	122	192	255
24	2.64	477	48.6	518	52.8	31	158	249	303
26	3.10	559	57.0	607	61.9	37	201	317	356
28	3.60	649	66.1	704	71.8	42	251	396	413
30	4.13	745	75.9	809	82.4	49	308	487	474
32	4.70	847	86.4	920	93.8	56	374	591	539
34	5.30	957	97.5	1039	106	63	449	709	608
36	5.95	1073	109	1164	119	70	533	842	682
38	6.62	1195	122	1297	132	78	627	990	760
40	7.34	1324	135	1438	147	87	731	1155	842
42	8.09	1460	149			96	846	1337	928
44	8.88	1602	163			105	973	1537	1019
46	9.71	1751	179			115	1112	1756	1113
Dyform 6x26WS									
48	10.57	1907	194			125	1263	1995	1212
50	11.47	2069	211			136	1428	1428	1316



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

DYFORM , BRISTAR 6

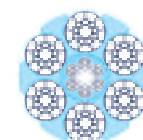


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
16	1.09	213	21.7	227	23.1	14	47	74	133
17	1.23	240	24.5	256	26.1	15	56	89	150
18	1.38	269	27.5	287	29.2	17	67	106	168
19	1.54	300	30.6	320	32.6	19	79	124	187
20	1.70	333	33.9	354	36.1	21	92	145	207
22	2.06	403	41.0	429	43.7	26	122	193	251
24	2.45	479	48.8	510	52.0	31	159	251	299
26	2.88	562	57.3	599	61.0	36	202	319	350
28	3.34	652	66.5	694	70.8	42	252	398	406
30	3.83	748	76.3	797	81.2	48	310	489	467
32	4.36	852	86.8	907	92.4	55	376	594	531
34	4.92	961	98.0	1024	104	62	451	713	599
36	5.52	1078	110	1148	117	69	535	846	672
38	6.15	1201	122	1279	130	77	630	995	749



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

Zebra

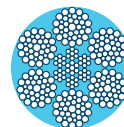


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)		Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		IPS / 1770 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	MN	N.m	N.m	mm²
38	5.91	950	96.8	10	505	794	670
40	6.54	1055	108	11	591	928	742
44	7.92	1275	130	13	785	1234	898
48	9.42	1520	155	16	1021	1605	1069
52	11.1	1785	182	19	1299	2042	1255
56	12.8	2070	211	22	1623	2550	1455
60	14.7	2375	242	25	1995	3135	1670



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

BRIFIL CLASS 6 X 36 STEEL CORE

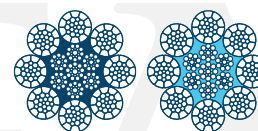


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		IPS / 1770 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
16	1.05	161	16.4	179	18.2	12	40	63	118
18	1.33	204	20.8	226	23.0	16	57	89	149
19	1.48	227	23.1	252	25.7	17	67	105	166
20	1.64	252	25.7	279	28.4	19	78	123	184
22	1.98	305	31.1	338	34.5	23	104	164	223
24	2.36	363	37.0	402	41.0	28	135	212	265
26	2.76	426	43.4	472	48.1	32	172	270	311
28	3.21	494	50.4	547	55.8	38	214	337	361
32	4.19	645	65.7	715	72.9	49	320	503	471
36	5.30	817	83.3	904	92.2	62	456	716	596
38	5.91	910	92.8	1010	103	69	537	844	664
40	6.54	1010	103	1120	114	77	627	986	736
44	7.92	1220	124	1350	138	93	832	1307	891
48	9.42	1450	148	1610	164	110	1082	1700	1060



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

ENDURANCE DYFORM 8 & 8PI

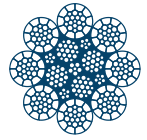


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
Dyform 8x19S									
10	0.47	88.2	8.99			5.3	12	16	53
11	0.57	107	10.9			6.5	16	21	65
12	0.68	127	12.9			7.7	21	27	77
13	0.80	149	15.2			9.0	27	35	90
14	0.92	173	17.6			10	34	44	105
15	1.06	198	20.2			12	42	54	120
16	1.20	226	23.0	236	24.1	14	51	65	137
17	1.36	255	26.0	267	27.2	15	61	78	154
Dyform 8x26WS									
18	1.52	286	29.1	299	30.5	17	72	93	173
19	1.70	318	32.5	333	33.9	19	85	109	193
20	1.88	353	36.0	369	37.6	21	99	127	214
22	2.28	427	43.5	446	45.5	26	131	169	258
24	2.71	508	51.8	531	54.2	31	171	219	308
26	3.18	596	60.8	623	63.6	36	217	279	361
28	3.69	691	70.5	723	73.7	42	271	349	419
30	4.23	794	80.9	830	84.6	48	333	429	481
32	4.82	903	92.1	944	96.3	55	405	520	547
34	5.44	1020	103.9	1066	109	62	485	624	617
Dyform 8x36WS									
36	6.10	1143	116.5	1195	122	69	576	741	692
38	6.79	1274	129.8	1332	136	77	678	871	771
40	7.53	1411	143.9	1476	150	85	790	1016	854
42	8.30	1556	158.6	1627	166	94	915	1176	942
44	9.11	1708	174.1	1786	182	103	1052	1352	1034
46	9.95	1866	190.2	1952	199	113	1202	1545	1130
48	10.8	2032	207.1	2125	217	123	1366	1756	1230
50	11.8	2205	224.8	2306	235	134	1544	1985	1335



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

ENDURANCE DYFORM DSC8

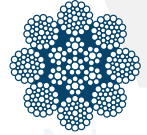


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
Dyform DSC 8x19S									
10	0.49	92.1	9.39	102	10.3	6.3	15	20	59
Dyform DSC 8x26WS									
11	0.59	111	11.4	123	12.5	7.6	20	27	71
12	0.71	133	13.5	146	14.9	9.1	26	35	85
13	0.83	156	15.9	172	17.5	11	33	45	100
14	0.96	181	18.4	199	20.3	12	41	56	115
15	1.10	207	21.1	228	23.3	14	50	68	133
16	1.26	236	24.0	260	26.5	16	61	83	151
17	1.42	266	27.1	293	29.9	18	73	100	170
18	1.59	298	30.4	329	33.5	20	87	118	191
19	1.77	333	33.9	366	37.4	23	102	139	213
20	1.96	368	37.6	406	41.4	25	119	162	236
22	2.38	446	45.4	491	50.1	31	159	216	285



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

ENDURANCE 8

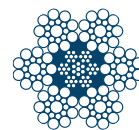


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
Endurance 8x19S									
12	0.59	100	10.2	111	11.3	6.8	17	22	71
13	0.69	118	12.0	130	13.2	8.0	21	28	84
14	0.80	137	13.9	151	15.4	9.3	27	34	97
16	1.04	179	18.2	197	20.1	12	40	51	127
Endurance 8x25F									
18	1.32	226	23.0	249	25.4	15	57	73	160
19	1.47	252	25.7	278	28.3	17	67	86	179
20	1.63	279	28.5	308	31.4	19	78	100	198
22	1.97	338	34.4	372	37.9	23	104	134	239
24	2.34	402	41.0	443	45.1	27	135	174	285
26	2.75	472	48.1	520	53.0	32	172	221	334
28	3.19	547	55.8	603	61.5	37	214	276	388
30	3.66	628	64.0	692	70.5	43	264	339	445
32	4.17	715	72.8	787	80.3	49	320	412	507
34	4.70	807	82.2	889	90.6	55	384	494	572
Endurance 8x36WS									
36	5.27	904	92.2	997	102	62	456	586	641
38	5.88	1008	103	1110	113	69	536	689	714



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

BLUE STRAND CLASS 6X19 STEEL CORE

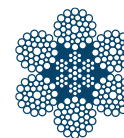


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		IPS / 1770 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
6	0.14	22.7	2.31	25.1	2.56	166	2	3	16.2
7	0.20	30.9	3.15	34.2	3.49	2.27	3	4	22.0
8	0.26	40.3	4.11	44.7	4.56	2.96	5	6	28.7
9	0.32	51.0	5.20	56.5	5.76	3.75	7	9	36.4
10	0.40	63.0	6.42	69.8	7.12	4.62	10	13	44.9
11	0.48	76.2	7.77	84.4	8.60	5.60	13	17	54.3
12	0.58	90.7	9.25	100	10.2	6.66	17	22	64.7
13	0.68	106	10.8	118	12.0	7.82	21	28	75.9
14	0.78	124	12.6	137	14.0	9.06	27	35	88.0
16	1.02	161	16.4	179	18.2	11.8	40	52	115
18	1.30	204	20.8	226	23.0	15.0	57	73	145
19	1.44	227	23.1	252	25.7	16.7	67	86	162
20	1.60	252	25.7	279	28.4	18.5	78	100	180
22	1.94	305	31.1	338	34.5	22.4	104	134	217
24	2.30	363	37.0	402	41.0	26.6	135	174	259
26	2.70	426	43.4	472	48.1	31.3	172	221	304
28	3.14	494	50.4	547	55.8	36.3	214	276	352
32	4.10	645	65.7	715	72.9	47.4	320	412	460
36	5.18	817	83.3	904	92.2	59.9	456	586	582
38	5.78	910	92.8	1010	103	66.8	537	691	648
40	6.40	1010	103	1120	114	74.0	627	806	718
44	7.74	1220	124	1350	138	89.5	832	1069	869
48	9.22	1450	148	1610	164	107	1082	1391	1034
52	10.8	1700	173	1890	193	125	1376	1769	1214
56	12.5	1980	202	2190	223	145	1717	2208	1408
60	14.4	2270	231	2510	256	166	2108	2711	1616



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

BLUE STRAND CLASS 6X36 STEEL CORE

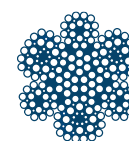


Diameter	Approx.nominal length mass	Minimum breaking force (Fmin)				Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		IPS / 1770 grade		EEIPS / 2160 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	kN	tonnes	MN	N.m	N.m	mm²
8	0.26	40.3	4.11	44.7	4.56	3	5	6	29
9	0.33	51.0	5.20	56.5	5.76	4	7	9	37
10	0.41	63.0	6.42	69.8	7.12	5	10	13	46
11	0.50	76.2	7.77	84.4	8.60	6	13	17	56
12	0.59	90.7	9.25	100	10.2	7	17	22	66
13	0.69	106	10.8	118	12.0	8	21	28	78
14	0.80	124	12.6	137	14.0	9	27	35	90
16	1.05	161	16.4	179	18.2	12	40	52	118
18	1.33	204	20.8	226	23.0	16	57	73	149
19	1.48	227	23.1	252	25.7	17	67	86	166
20	1.64	252	25.7	279	28.4	19	78	100	184
22	1.98	305	31.1	338	34.5	23	104	134	223
24	2.36	363	37.0	402	41.0	28	135	174	265
26	2.76	426	43.4	472	48.1	32	172	221	311
28	3.21	494	50.4	547	55.8	38	214	276	361
32	4.19	645	65.7	715	72.9	49	320	412	471
36	5.30	817	83.3	904	92.2	62	456	586	596
38	5.91	910	92.8	1010	103	69	537	691	664
40	6.54	1010	103	1120	114	77	627	806	736
44	7.92	1220	124	1350	138	93	832	1069	891
48	9.42	1450	148	1610	164	110	1082	1391	1060
52	11.1	1700	173	1890	193	129	1376	1769	1244
56	12.8	1980	202	2190	223	150	1717	2208	1443
60	14.7	2270	231	2510	256	172	2108	2711	1656



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.

CONSTRUCTEX



Diameter		Approx.nominal length mass		Minimum breaking force (Fmin)			Axial stiffness @20% load	Torque generated @20% load	Metallic cross section
				EIPS / 1960 grade				Ordinary	
mm	ins	kg/m	lb/ft	kN	tonnes	tons (200lbs)	MN	kN.m	mm²
15.9	5/8	1.34	0.90	227	23.1	25.5	15	0.051	143
19.1	3/4	1.64	1.10	325	33.1	36.5	22	0.087	206
22.2	7/8	2.23	1.50	432	44.0	48.5	30	0.134	279
25.4	1	2.98	2.00	556	56.7	62.5	39	0.198	365
28.6	1 1/8	3.87	2.60	707	72.1	79.5	50	0.283	463
31.8	1 1/4	4.76	3.20	868	88.5	97.5	61	0.387	572
34.9	1 3/8	5.66	3.80	1059	108	119	74	0.517	689
38.1	1 1/2	6.85	4.60	1237	126	139	88	0.660	822
41.3	1 5/8	7.89	5.30	1441	147	162	103	0.833	965
44.5	1 3/4	9.23	6.20	1646	168	185	120	1.025	1121



Lang's Lay must not be selected for use in any application where either end of the rope is free to rotate.